

Perception yrom sorateh: Similar to how our body reciers inputs like hearing and Smelling and sends the treaction via neurons, Neural networks work in the same way - A perceptron minics the Junction of I reuron

linear model

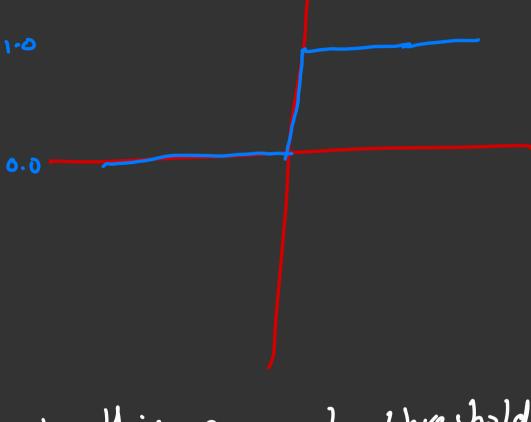
Activation function

we use unit step junction i.e. $g(z) = \begin{cases} 1 & \text{if } z \geq \theta \\ 0 & \text{otherwise} \end{cases}$

lij 2 crosses a particular thereshold i.e o

O other wise

grah-



in this enample threshold is Zero

$$\hat{y} = g(f(w,b) = g(w,b)$$

Percepton update gule: for each training sample n;:

Dw= a: (y:-y:).n;

d - learning rate (0,1)

2 class problem eg-for a 4-9 o Copfinal) (heights are) 1 0 0 0 -1 (weight) are Weights are pushed towards positive or negative target in case of misclassification

